

Project ID: 21-0190

Residential Well Sampling Investigation Final Report International Paper

1633 South First Street
Wiggins, MS 39577

Project Date: April 6, 2021

Report Date: June 10, 2021

Project Leader: Art Masters
Hazardous Waste Section
Field Services Branch
Laboratory Services & Applied Science
Division
USEPA – Region 4
980 College Station Road
Athens, Georgia 30605-2720

The ANSI National Accreditation Board attests that U.S. EPA Region 4 Laboratory Services and Applied Science Division fulfills the requirements of ISO/IEC 17025:2017 ANAB Forensic Testing & Calibration AR 3125:2019 in the field of Forensic Testing. The activities contained in this report fall within the scope of accreditation, Certificate Number: FT-0330. Expires 31 July 2022.



Project Requestor:

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RCRA Corrective Action Section
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Region 4
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Analytical Support:

Laboratory Services and Applied Science
Division
US Environmental Protection Agency –
Region 4
980 College Station Road
Athens, Georgia 30605

Approvals:**LSASD Project Leader:**

Art Masters
Hazardous Waste Section
Field Services Branch

Date

Approving Official:

Liza Montalvo, Chief
Hazardous Waste Section
Field Services Branch

Date

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Residential Well Sampling Report
International Paper
Wiggins, Mississippi

1.0 Introduction

The United States Environmental Protection Agency (US EPA) Region 4 Laboratory Services and Applied Science Division (LSASD) personnel conducted residential well sampling on properties nearby the former International Paper facility in Wiggins, Mississippi on April 6, 2021. Maher Budeir of the Land, Chemicals and Redevelopment Division (LCRD) requested the sampling to determine if the known groundwater contamination related to the site has impacted residential wells on properties nearby. Mississippi Department of Environmental Quality (MDEQ) personnel obtained access agreements with eight property owners to sample the residential wells.

Representatives of the LSASD conducted the requested groundwater sampling investigation. The following personnel were present for all or a portion of the investigation:

<u>NAME</u>	<u>ORGANIZATION</u>	<u>DUTIES</u>
Art Masters	LSASD	Project leader, sampler
Paula Whiting	LSASD	Safety officer, sampler
Maher Budeir	LCRD	Observation
Eric James	MDEQ	Public Interface

This sampling event was conducted in accordance with the Sampling and Analysis Plan (SAP) for the International Paper, Wiggins Sampling Investigation dated March 31, 2021. Any deviations from the SAP are documented in the field logbooks as needed and discussed in the appropriate sections of this report. In addition, the SAP is designed to be used in conjunction with the Applied Science Branch (ASB) Quality Assurance Project Plan, December 2019.

2.0 Summary

Eight potable wells were sampled and analyzed for Semi Volatile Organic Compounds (SVOCs) by EPA method 8270D. There were no SVOCs detected above the Minimum Reporting Levels (MRLs) in any samples. Pentachlorophenol, the primary contaminant of concern for this project had a minimum reporting level of 1 µg/L, which is equal to the Maximum Contaminant Level (MCL) for pentachlorophenol. Complete data reports with MRLs for all SVOCs are contained in Appendix A.

3.0 Site Background

The former International Paper Treated Wood Products Plant in Stone County, Mississippi is located approximately 2 miles south of the town of Wiggins. The plant, which has been operating since December 1969, was sold to Baldwin Pole Mississippi LLC (Baldwin Pole) on January 31, 2007. The overall manufacturing operations at the time of the sale comprised of 88 acres of a larger 180-acre property. At the time of the sale the property was sub-divided and a 92-acre portion containing

the closed units was retained by International Paper (IPCo) (current IPCo property). The remaining 88 acres containing the active manufacturing portion of the facility was sold to Baldwin Pole (Baldwin Pole property).

IPCo also has retained the EPA HSWA Permit No. HW-980-600-084 formerly associated with the entire property. Under the EPA permit, IPCo retains responsibility for the completion of the RCRA corrective action program (CAP) at the facility, and eventual closure of Treatment Areas 1 and 2 (i.e., the drip pads), although IPCo is no longer the owner/operator of the manufacturing operations in which the Treatment Areas are located. Corrective action has been ongoing at the International Paper facility since 1987. The facility has conducted wood preserving operations using creosote, cellon (pentachlorophenol/butane mix) and Chromated Copper Arsenate (CCA). The RCRA RFI has shown groundwater contamination, soil contamination and potential impact on an adjacent stream.

4.0 Field Investigation and Methodology

Samples were collected from the potable well at the addresses found in Table 1. Each residential well was purged for a minimum of 15 minutes and until three consecutive readings of pH were within 0.1 pH unit, three consecutive conductivity readings were within 5% and turbidity was below 10 NTU. Final field parameters are found in Table 2. A map of the investigation area with approximate well locations is found in Figure 1. Samples were collected from the tap located closest to the well pump, filling directly into sample containers. Field activities were conducted in accordance with LSASD's Field Branches Management and Quality System Procedures and the following LSASD field measurement and sampling operating procedures:

- SESDPROC-100-R5, Field pH Measurement
- SESDPROC-101-R7, Field Specific Conductance Measurement
- SESDPROC-102-R5, Field Temperature Measurement
- SESDPROC-103-R4, Field Turbidity Measurement
- SESDPROC-305-R4, Potable Water Supply Sampling

During the preparation of the report an error was discovered regarding the sample time of sample IP-106OAR. The time was initially recorded in the logbook as 16:10 when it should be 17:10. Additionally, the time entered on the chain of custody was 16:33. The correct sample time was 17:10 and has been corrected in the laboratory's data management system. All field measurement and sampling procedures were performed and/or overseen by LSASD Field Services Branch personnel proficient in the pertinent procedures. Any person that was not proficient in any measurement or sampling procedure was teamed with someone who was proficient. Chain of custody documents were prepared by Mr. Masters using the US EPA's Scribe program. Samples were submitted to the LSASD laboratory for analysis using EPA Method 8270D.

Table 1 Well Information

Address	Sample ID	Sample Date/Time
88 Mill Road	IP-088MR	04/06/2021 13:47
92A Mill Road	IP-092AMR	04/06/2021 14:33
453 Old Hwy 49	IP-453OH	04/06/2021 15:05
33 Old Airport Road	IP-033OAR	04/06/2021 15:35
38 Old Airport Road	IP-038OAR	04/06/2021 16:05
32 Old Airport Road	IP-032OAR	04/06/2021 16:33
106 Old Airport Road	IP-106OAR	04/06/2021 17:10
44 Hillcrest Road	IP-044HR	04/06/2021 17:43

Table 2 Field Parameter Results

Sample ID	pH	Temp	Spec Cond	Turbidity
	(S.U.)	(Deg C)	(μ S/cm)	NTU
IP-088MR	4.92	21.3	56.69	0.15
IP-092AMR	4.95	21.2	43.24	0.54
IP-453OH	4.91	21.5	33.68	0.19
IP-033OAR	4.92	21.2	35.18	0.19
IP-038OAR	4.77	21.1	27.21	0.26
IP-032OAR	4.74	21.0	35.30	2.92
IP-106OAR	4.90	21.1	39.47	0.32
IP-044HR	5.06	20.3	24.98	0.13

Figure 1 Approximate Well Locations



5.0 Results

There were no detections of SVOCs above the MRL in any sample. Laboratory quality control measures were all acceptable with the exception of one analyte in one sample. This exception is not expected to impact the quality or usability of the data. The complete analytical data report is included in Appendix A, a copy of the field logbook is included as Appendix B and the chain of custody documentation is included as Appendix C.

6.0 References

US EPA LSASD. "Quality System and Technical Procedures for SESD Field Branches." <https://www.epa.gov/quality/quality-system-and-technical-procedures-lsasd-field-branches>, Most recent versions as of study date.

US EPA LSASD. "Sampling and Analysis Plan for International Paper, Wiggins" March 31, 2021.

USEPA LSASD. "Laboratory Services Branch Laboratory Operations and Quality Assurance Manual." April 24, 2020.

Appendix A

Analytical

Data Report



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

May 4, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 21-0190, International Paper, Wiggins

FROM: Stacie Masters

LSB Organic Chemistry Section Chief

THRU: Sandra Aker, Chief

Laboratory Services Branch

TO: Arthur Masters

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Semi Volatile Organics (SVOA)

Semivolatile organic compounds

EPA 8270D (Water)

ISO



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Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at

R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 21-0190, International Paper, Wiggins

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
IP-032OAR	E211506-01	Potable Water	4/6/21 16:33	4/7/21 15:00
IP-033OAR	E211506-02	Potable Water	4/6/21 15:35	4/7/21 15:00
IP-038OAR	E211506-03	Potable Water	4/6/21 16:05	4/7/21 15:00
IP-044HR	E211506-04	Potable Water	4/6/21 17:43	4/7/21 15:00
IP-088MR	E211506-05	Potable Water	4/6/21 13:47	4/7/21 15:00
IP-092AMR	E211506-06	Potable Water	4/6/21 14:33	4/7/21 15:00
IP-106OAR	E211506-07	Potable Water	4/6/21 16:33	4/7/21 15:00
IP-453OH	E211506-08	Potable Water	4/6/21 15:05	4/7/21 15:00



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DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

J The identification of the analyte is acceptable; the reported value is an estimate.

QM-3 Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:

<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:

<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.



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D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-032OAR**Lab ID:** E211506-01**Station ID:** IP-032OAR**Matrix:** Potable Water**Date Collected:** 4/6/21 16:33

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:18	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:18	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
120-83-2	2,4-Dichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
105-67-9	2,4-Dimethylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
121-14-2	2,4-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
606-20-2	2,6-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
91-58-7	2-Chloronaphthalene	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
95-57-8	2-Chlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
95-48-7	2-Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
88-74-4	2-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
88-75-5	2-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
99-09-2	3-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
106-47-8	4-Chloroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
100-01-6	4-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
100-02-7	4-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D



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D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-032OAR****Lab ID: E211506-01****Station ID: IP-032OAR****Matrix: Potable Water****Date Collected: 4/6/21 16:33**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
98-86-2	Acetophenone	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
1912-24-9	Atrazine	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
100-52-7	Benzaldehyde	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
100-51-6	Benzyl alcohol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
85-68-7	Benzyl butyl phthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
105-60-2	Caprolactam	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:18	EPA 8270D
84-66-2	Diethyl phthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
131-11-3	Dimethyl phthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
84-74-2	Di-n-butylphthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
117-84-0	Di-n-octylphthalate	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D



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D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-032OAR**Lab ID:** E211506-01**Station ID:** IP-032OAR**Matrix:** Potable Water**Date Collected:** 4/6/21 16:33

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
78-59-1	Isophorone	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
98-95-3	Nitrobenzene	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
87-86-5	Pentachlorophenol	1.0	U	ug/L	1.0	4/09/21 10:04	4/21/21 15:18	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
108-95-2	Phenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:18	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:18	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-033OAR****Lab ID: E211506-02****Station ID: IP-033OAR****Matrix: Potable Water****Date Collected: 4/6/21 15:35**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:50	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:50	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
91-58-7	2-Chloronaphthalene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
95-57-8	2-Chlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
95-48-7	2-Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
88-74-4	2-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
88-75-5	2-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
99-09-2	3-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
106-47-8	4-Chloroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
100-01-6	4-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
100-02-7	4-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins

Sample ID: IP-033OAR

Lab ID: E211506-02

Station ID: IP-033OAR

Matrix: Potable Water

Date Collected: 4/6/21 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
98-86-2	Acetophenone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
1912-24-9	Atrazine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
100-52-7	Benzaldehyde	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
100-51-6	Benzyl alcohol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
105-60-2	Caprolactam	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 15:50	EPA 8270D
84-66-2	Diethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
131-11-3	Dimethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
84-74-2	Di-n-butylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
117-84-0	Di-n-octylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-033OAR**Lab ID:** E211506-02**Station ID:** IP-033OAR**Matrix:** Potable Water**Date Collected:** 4/6/21 15:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
78-59-1	Isophorone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
98-95-3	Nitrobenzene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
87-86-5	Pentachlorophenol	0.99	U	ug/L	0.99	4/09/21 10:04	4/21/21 15:50	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
108-95-2	Phenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 15:50	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 15:50	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 15:50	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins

Sample ID: IP-038OAR

Lab ID: E211506-03

Station ID: IP-038OAR

Matrix: Potable Water

Date Collected: 4/6/21 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:21	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:21	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
91-58-7	2-Chloronaphthalene	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
95-57-8	2-Chlorophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
95-48-7	2-Methylphenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
88-74-4	2-Nitroaniline	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
88-75-5	2-Nitrophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
99-09-2	3-Nitroaniline	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
106-47-8	4-Chloroaniline	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
100-01-6	4-Nitroaniline	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
100-02-7	4-Nitrophenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-038OAR****Lab ID: E211506-03****Station ID: IP-038OAR****Matrix: Potable Water****Date Collected: 4/6/21 16:05**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
98-86-2	Acetophenone	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
1912-24-9	Atrazine	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
100-52-7	Benzaldehyde	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
100-51-6	Benzyl alcohol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.8	U, J, QM-3	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
105-60-2	Caprolactam	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:21	EPA 8270D
84-66-2	Diethyl phthalate	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
131-11-3	Dimethyl phthalate	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
84-74-2	Di-n-butylphthalate	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
117-84-0	Di-n-octylphthalate	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-038OAR**Lab ID:** E211506-03**Station ID:** IP-038OAR**Matrix:** Potable Water**Date Collected:** 4/6/21 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
78-59-1	Isophorone	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
98-95-3	Nitrobenzene	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
87-86-5	Pentachlorophenol	0.98	U	ug/L	0.98	4/09/21 10:04	4/21/21 16:21	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
108-95-2	Phenol	9.8	U	ug/L	9.8	4/09/21 10:04	4/21/21 16:21	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:21	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 16:21	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-044HR**Lab ID:** E211506-04**Station ID:** IP-044HR**Matrix:** Potable Water**Date Collected:** 4/6/21 17:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:53	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:53	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
91-58-7	2-Chloronaphthalene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
95-57-8	2-Chlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
95-48-7	2-Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
88-74-4	2-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
88-75-5	2-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
99-09-2	3-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
106-47-8	4-Chloroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
100-01-6	4-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
100-02-7	4-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-044HR****Lab ID: E211506-04****Station ID: IP-044HR****Matrix: Potable Water****Date Collected: 4/6/21 17:43**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
98-86-2	Acetophenone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
1912-24-9	Atrazine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
100-52-7	Benzaldehyde	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
100-51-6	Benzyl alcohol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
105-60-2	Caprolactam	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 16:53	EPA 8270D
84-66-2	Diethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
131-11-3	Dimethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
84-74-2	Di-n-butylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
117-84-0	Di-n-octylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-044HR**Lab ID:** E211506-04**Station ID:** IP-044HR**Matrix:** Potable Water**Date Collected:** 4/6/21 17:43

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
78-59-1	Isophorone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
98-95-3	Nitrobenzene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
87-86-5	Pentachlorophenol	0.99	U	ug/L	0.99	4/09/21 10:04	4/21/21 16:53	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
108-95-2	Phenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 16:53	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 16:53	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 16:53	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-088MR**Lab ID:** E211506-05**Station ID:** IP-088MR**Matrix:** Potable Water**Date Collected:** 4/6/21 13:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 17:24	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 17:24	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
120-83-2	2,4-Dichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
105-67-9	2,4-Dimethylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
121-14-2	2,4-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
606-20-2	2,6-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
91-58-7	2-Chloronaphthalene	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
95-57-8	2-Chlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
95-48-7	2-Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
88-74-4	2-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
88-75-5	2-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
99-09-2	3-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
106-47-8	4-Chloroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
100-01-6	4-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
100-02-7	4-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-088MR**Lab ID:** E211506-05**Station ID:** IP-088MR**Matrix:** Potable Water**Date Collected:** 4/6/21 13:47

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
78-59-1	Isophorone	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
98-95-3	Nitrobenzene	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
87-86-5	Pentachlorophenol	1.0	U	ug/L	1.0	4/09/21 10:04	4/21/21 17:24	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
108-95-2	Phenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:24	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:24	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-092AMR**Lab ID:** E211506-06**Station ID:** IP-092AMR**Matrix:** Potable Water**Date Collected:** 4/6/21 14:33

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 17:56	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 17:56	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
91-58-7	2-Chloronaphthalene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
95-57-8	2-Chlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
95-48-7	2-Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
88-74-4	2-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
88-75-5	2-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
99-09-2	3-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
106-47-8	4-Chloroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
100-01-6	4-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
100-02-7	4-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-092AMR****Lab ID: E211506-06****Station ID: IP-092AMR****Matrix: Potable Water****Date Collected: 4/6/21 14:33**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
98-86-2	Acetophenone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
1912-24-9	Atrazine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
100-52-7	Benzaldehyde	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
100-51-6	Benzyl alcohol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
105-60-2	Caprolactam	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 17:56	EPA 8270D
84-66-2	Diethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
131-11-3	Dimethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
84-74-2	Di-n-butylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
117-84-0	Di-n-octylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-092AMR**Lab ID:** E211506-06**Station ID:** IP-092AMR**Matrix:** Potable Water**Date Collected:** 4/6/21 14:33

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
78-59-1	Isophorone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
98-95-3	Nitrobenzene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
87-86-5	Pentachlorophenol	0.99	U	ug/L	0.99	4/09/21 10:04	4/21/21 17:56	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
108-95-2	Phenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 17:56	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 17:56	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 17:56	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-106OAR****Lab ID: E211506-07****Station ID: IP-106OAR****Matrix: Potable Water****Date Collected: 4/6/21 16:33**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 18:29	EPA 8270D
123-91-1	1,4-Dioxane	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 18:29	EPA 8270D
90-12-0	1-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
51-28-5	2,4-Dinitrophenol	20	U	ug/L	20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
91-58-7	2-Chloronaphthalene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
95-57-8	2-Chlorophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
91-57-6	2-Methylnaphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
95-48-7	2-Methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
88-74-4	2-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
88-75-5	2-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
99-09-2	3-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
106-47-8	4-Chloroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
100-01-6	4-Nitroaniline	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
100-02-7	4-Nitrophenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
83-32-9	Acenaphthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-106OAR****Lab ID: E211506-07****Station ID: IP-106OAR****Matrix: Potable Water****Date Collected: 4/6/21 16:33**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
98-86-2	Acetophenone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
120-12-7	Anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
1912-24-9	Atrazine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
100-52-7	Benzaldehyde	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
56-55-3	Benzo(a)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
50-32-8	Benzo(a)pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
100-51-6	Benzyl alcohol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
108-60-1	Bis(2-chloro-1-methylethyl) ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
105-60-2	Caprolactam	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
86-74-8	Carbazole	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
218-01-9	Chrysene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	4/09/21 10:04	4/21/21 18:29	EPA 8270D
84-66-2	Diethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
131-11-3	Dimethyl phthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
84-74-2	Di-n-butylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
117-84-0	Di-n-octylphthalate	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
206-44-0	Fluoranthene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
86-73-7	Fluorene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-106OAR**Lab ID:** E211506-07**Station ID:** IP-106OAR**Matrix:** Potable Water**Date Collected:** 4/6/21 16:33

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
78-59-1	Isophorone	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
91-20-3	Naphthalene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
98-95-3	Nitrobenzene	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
87-86-5	Pentachlorophenol	0.99	U	ug/L	0.99	4/09/21 10:04	4/21/21 18:29	EPA 8270D
85-01-8	Phenanthrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
108-95-2	Phenol	9.9	U	ug/L	9.9	4/09/21 10:04	4/21/21 18:29	EPA 8270D
129-00-0	Pyrene	0.20	U	ug/L	0.20	4/09/21 10:04	4/21/21 18:29	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 18:29	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID: IP-453OH****Lab ID: E211506-08****Station ID: IP-453OH****Matrix: Potable Water****Date Collected: 4/6/21 15:05**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
92-52-4	1,1-Biphenyl	2.1	U	ug/L	2.1	4/09/21 10:04	4/21/21 19:01	EPA 8270D
123-91-1	1,4-Dioxane	2.1	U	ug/L	2.1	4/09/21 10:04	4/21/21 19:01	EPA 8270D
90-12-0	1-Methylnaphthalene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
120-83-2	2,4-Dichlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
105-67-9	2,4-Dimethylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
51-28-5	2,4-Dinitrophenol	21	U	ug/L	21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
121-14-2	2,4-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
606-20-2	2,6-Dinitrotoluene	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
91-58-7	2-Chloronaphthalene	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
95-57-8	2-Chlorophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
91-57-6	2-Methylnaphthalene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
95-48-7	2-Methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
88-74-4	2-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
88-75-5	2-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
99-09-2	3-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
106-47-8	4-Chloroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
100-01-6	4-Nitroaniline	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
100-02-7	4-Nitrophenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
83-32-9	Acenaphthene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics

Project: 21-0190, International Paper, Wiggins**Sample ID:** IP-453OH**Lab ID:** E211506-08**Station ID:** IP-453OH**Matrix:** Potable Water**Date Collected:** 4/6/21 15:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
67-72-1	Hexachloroethane	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
78-59-1	Isophorone	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
91-20-3	Naphthalene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
98-95-3	Nitrobenzene	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
87-86-5	Pentachlorophenol	1.0	U	ug/L	1.0	4/09/21 10:04	4/21/21 19:01	EPA 8270D
85-01-8	Phenanthrene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
108-95-2	Phenol	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D
129-00-0	Pyrene	0.21	U	ug/L	0.21	4/09/21 10:04	4/21/21 19:01	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	4/09/21 10:04	4/21/21 19:01	EPA 8270D



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Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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Batch 2104025 - E 3520 LLE**Blank (2104025-BLK1)**

Prepared: 04/09/21 Analyzed: 04/21/21

EPA 8270D

(3-and/or 4-)Methylphenol	U	10	ug/L						U
1,1-Biphenyl	U	2.0	"						U
1,4-Dioxane	U	2.0	"						U
1-Methylnaphthalene	U	0.20	"						U
2,3,4,6-Tetrachlorophenol	U	10	"						U
2,4,5-Trichlorophenol	U	10	"						U
2,4,6-Trichlorophenol	U	10	"						U
2,4-Dichlorophenol	U	10	"						U
2,4-Dimethylphenol	U	10	"						U
2,4-Dinitrophenol	U	20	"						U
2,4-Dinitrotoluene	U	10	"						U
2,6-Dinitrotoluene	U	10	"						U
2-Chloronaphthalene	U	10	"						U
2-Chlorophenol	U	10	"						U
2-Methyl-4,6-dinitrophenol	U	10	"						U
2-Methylnaphthalene	U	0.20	"						U
2-Methylphenol	U	10	"						U
2-Nitroaniline	U	10	"						U
2-Nitrophenol	U	10	"						U
3,3'-Dichlorobenzidine	U	10	"						U
3-Nitroaniline	U	10	"						U
4-Bromophenyl phenyl ether	U	10	"						U
4-Chloro-3-methylphenol	U	10	"						U
4-Chloroaniline	U	10	"						U
4-Chlorophenyl phenyl ether	U	10	"						U
4-Nitroaniline	U	10	"						U
4-Nitrophenol	U	10	"						U
Acenaphthene	U	0.20	"						U
Acenaphthylene	U	0.20	"						U
Acetophenone	U	10	"						U
Anthracene	U	0.20	"						U
Atrazine	U	10	"						U
Benzaldehyde	U	10	"						U
Benzo(a)anthracene	U	0.20	"						U
Benzo(a)pyrene	U	0.20	"						U
Benzo(b)fluoranthene	U	0.20	"						U
Benzo(g,h,i)perylene	U	0.20	"						U
Benzo(k)fluoranthene	U	0.20	"						U
Benzyl alcohol	U	10	"						U



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 2104025 - E 3520 LLE**Blank (2104025-BLK1)**

Prepared: 04/09/21 Analyzed: 04/21/21

Benzyl butyl phthalate	U	10	ug/L							U
Bis(2-chloro-1-methylethyl) ether	U	10	"							U
Bis(2-chloroethoxy)methane	U	10	"							U
bis(2-Chloroethyl) Ether	U	10	"							U
Bis(2-ethylhexyl) phthalate	U	10	"							U
Caprolactam	U	10	"							U
Carbazole	U	0.20	"							U
Chrysene	U	0.20	"							U
Dibenz(a,h)anthracene	U	0.20	"							U
Dibenzo-furan	U	2.0	"							U
Diethyl phthalate	U	10	"							U
Dimethyl phthalate	U	10	"							U
Di-n-butylphthalate	U	10	"							U
Di-n-octylphthalate	U	10	"							U
Fluoranthene	U	0.20	"							U
Fluorene	U	0.20	"							U
Hexachlorobenzene (HCB)	U	10	"							U
Hexachlorocyclopentadiene (HCCP)	U	10	"							U
Hexachloroethane	U	10	"							U
Indeno (1,2,3-cd) pyrene	U	0.20	"							U
Isophorone	U	10	"							U
Naphthalene	U	0.20	"							U
Nitrobenzene	U	10	"							U
n-Nitroso di-n-Propylamine	U	10	"							U
n-Nitrosodiphenylamine/Diphenylamine	U	10	"							U
Pentachlorophenol	U	1.0	"							U
Phenanthrene	U	0.20	"							U
Phenol	U	10	"							U
Pyrene	U	0.20	"							U
Tentatively Identified Compounds	U	10	"							U



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Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE**LCS (2104025-BS1)**

Prepared: 04/09/21 Analyzed: 04/21/21

EPA 8270D

(3-and/or 4-)Methylphenol	51.640	10	ug/L	60.000	86.1	55-111			
1,1-Biphenyl	57.390	2.0	"	60.000	95.6	51-118			
1,4-Dioxane	38.250	2.0	"	60.000	63.8	41-89			
1-Methylnaphthalene	57.450	2.0	"	60.000	95.8	61-127			
2,3,4,6-Tetrachlorophenol	63.880	10	"	60.000	106	45-134			
2,4,5-Trichlorophenol	59.580	10	"	60.000	99.3	56-131			
2,4,6-Trichlorophenol	60.060	10	"	60.000	100	56-128			
2,4-Dichlorophenol	57.750	10	"	60.000	96.2	63-123			
2,4-Dimethylphenol	50.110	10	"	60.000	83.5	44-106			
2,4-Dinitrophenol	108.39	20	"	120.00	90.3	49-128			
2,4-Dinitrotoluene	63.330	10	"	60.000	106	58-125			
2,6-Dinitrotoluene	60.370	10	"	60.000	101	60-122			
2-Chloronaphthalene	53.490	10	"	60.000	89.2	53-115			
2-Chlorophenol	52.470	10	"	60.000	87.4	55-117			
2-Methyl-4,6-dinitrophenol	56.540	10	"	60.000	94.2	62-125			
2-Methylnaphthalene	53.070	2.0	"	60.000	88.4	56-115			
2-Methylphenol	44.210	10	"	60.000	73.7	52-111			
2-Nitroaniline	64.930	10	"	60.000	108	58-121			
2-Nitrophenol	58.110	10	"	60.000	96.8	58-126			
3,3'-Dichlorobenzidine	41.670	10	"	60.000	69.4	10-144			
3-Nitroaniline	60.440	10	"	60.000	101	38-141			
4-Bromophenyl phenyl ether	59.970	10	"	60.000	100	61-117			
4-Chloro-3-methylphenol	57.550	10	"	60.000	95.9	64-122			
4-Chloroaniline	43.170	10	"	60.000	72.0	18-102			
4-Chlorophenyl phenyl ether	61.310	10	"	60.000	102	55-117			
4-Nitroaniline	64.800	10	"	60.000	108	15-185			
4-Nitrophenol	54.520	10	"	60.000	90.9	38-130			
Acenaphthene	55.520	2.0	"	60.000	92.5	53-115			
Acenaphthylene	58.160	2.0	"	60.000	96.9	53-118			
Acetophenone	55.970	10	"	60.000	93.3	60-112			
Anthracene	56.870	2.0	"	60.000	94.8	65-110			
Atrazine	57.360	10	"	60.000	95.6	53-128			
Benzaldehyde	50.230	10	"	60.000	83.7	55-152			
Benzo(a)anthracene	54.920	2.0	"	60.000	91.5	52-121			
Benzo(a)pyrene	50.860	2.0	"	60.000	84.8	60-115			
Benzo(b)fluoranthene	51.550	2.0	"	60.000	85.9	58-117			
Benzo(g,h,i)perylene	44.660	2.0	"	60.000	74.4	45-101			
Benzo(k)fluoranthene	60.610	2.0	"	60.000	101	64-124			
Benzyl alcohol	44.210	10	"	60.000	73.7	49-114			



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Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE**LCS (2104025-BS1)**

Prepared: 04/09/21 Analyzed: 04/21/21

QC-2

Benzyl butyl phthalate	58.000	10	ug/L	60.000	96.7	58-129			
Bis(2-chloro-1-methylethyl) ether	55.440	10	"	60.000	92.4	55-113			
Bis(2-chloroethoxy)methane	59.920	10	"	60.000	99.9	59-115			
bis(2-Chloroethyl) Ether	56.840	10	"	60.000	94.7	53-117			
Bis(2-ethylhexyl) phthalate	55.850	10	"	60.000	93.1	56-130			
Caprolactam	28.010	10	"	60.000	46.7	33-94			
Carbazole	58.010	2.0	"	60.000	96.7	68-114			
Chrysene	54.590	2.0	"	60.000	91.0	58-122			
Dibenz(a,h)anthracene	52.050	2.0	"	60.000	86.8	46-113			
Dibenzo furan	65.120	2.0	"	60.000	109	50-133			
Diethyl phthalate	55.600	10	"	60.000	92.7	61-118			
Dimethyl phthalate	53.780	10	"	60.000	89.6	58-120			
Di-n-butylphthalate	55.000	10	"	60.000	91.7	63-117			
Di-n-octylphthalate	53.280	10	"	60.000	88.8	60-125			
Fluoranthene	59.100	2.0	"	60.000	98.5	68-113			
Fluorene	57.810	2.0	"	60.000	96.4	60-117			
Hexachlorobenzene (HCB)	50.730	10	"	60.000	84.6	56-120			
Hexachlorocyclopentadiene (HCCP)	38.930	10	"	60.000	64.9	18-103			
Hexachloroethane	41.190	10	"	60.000	68.6	35-105			
Indeno (1,2,3-cd) pyrene	49.800	2.0	"	60.000	83.0	47-110			
Isophorone	53.570	10	"	60.000	89.3	60-114			
Naphthalene	52.060	2.0	"	60.000	86.8	55-113			
Nitrobenzene	53.780	10	"	60.000	89.6	59-114			
n-Nitroso di-n-Propylamine	53.100	10	"	60.000	88.5	58-113			
n-Nitrosodiphenylamine/Diphenylamine	56.230	10	"	60.000	93.7	65-115			
Pentachlorophenol	53.230	10	"	60.000	88.7	47-122			
Phenanthrene	54.260	2.0	"	60.000	90.4	63-111			
Phenol	46.410	10	"	60.000	77.4	47-104			
Pyrene	58.540	2.0	"	60.000	97.6	48-129			



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Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE**Matrix Spike (2104025-MS1)****Source: E211506-03**

Prepared: 04/09/21 Analyzed: 04/21/21

EPA 8270D

(3-and/or 4-)Methylphenol	52.310	10	ug/L	60.000	U	87.2	50-107
1,1-Biphenyl	55.130	2.0	"	60.000	U	91.9	53-106
1,4-Dioxane	36.840	2.0	"	60.000	U	61.4	38-85
1-Methylnaphthalene	55.490	2.0	"	60.000	U	92.5	51-126
2,3,4,6-Tetrachlorophenol	62.940	10	"	60.000	U	105	35-133
2,4,5-Trichlorophenol	60.110	10	"	60.000	U	100	46-129
2,4,6-Trichlorophenol	59.560	10	"	60.000	U	99.3	44-127
2,4-Dichlorophenol	57.660	10	"	60.000	U	96.1	53-119
2,4-Dimethylphenol	52.050	10	"	60.000	U	86.8	45-102
2,4-Dinitrophenol	114.15	20	"	120.00	U	95.1	40-117
2,4-Dinitrotoluene	63.250	10	"	60.000	U	105	47-121
2,6-Dinitrotoluene	59.170	10	"	60.000	U	98.6	50-119
2-Chloronaphthalene	53.080	10	"	60.000	U	88.5	47-111
2-Chlorophenol	52.350	10	"	60.000	U	87.2	48-112
2-Methyl-4,6-dinitrophenol	56.750	10	"	60.000	U	94.6	52-119
2-Methylnaphthalene	52.260	2.0	"	60.000	U	87.1	58-106
2-Methylphenol	44.340	10	"	60.000	U	73.9	49-104
2-Nitroaniline	65.620	10	"	60.000	U	109	40-120
2-Nitrophenol	58.210	10	"	60.000	U	97.0	49-121
3,3'-Dichlorobenzidine	44.290	10	"	60.000	U	73.8	42-134
3-Nitroaniline	65.800	10	"	60.000	U	110	14-135
4-Bromophenyl phenyl ether	58.600	10	"	60.000	U	97.7	53-116
4-Chloro-3-methylphenol	57.810	10	"	60.000	U	96.4	47-131
4-Chloroaniline	42.050	10	"	60.000	U	70.1	15-86
4-Chlorophenyl phenyl ether	59.920	10	"	60.000	U	99.9	46-114
4-Nitroaniline	75.480	10	"	60.000	U	126	10-171
4-Nitrophenol	57.210	10	"	60.000	U	95.4	33-117
Acenaphthene	52.570	2.0	"	60.000	U	87.6	56-103
Acenaphthylene	55.020	2.0	"	60.000	U	91.7	54-106
Acetophenone	55.510	10	"	60.000	U	92.5	45-115
Anthracene	53.660	2.0	"	60.000	U	89.4	66-104
Atrazine	53.230	10	"	60.000	U	88.7	36-123
Benzaldehyde	57.920	10	"	60.000	U	96.5	16-190
Benzo(a)anthracene	52.300	2.0	"	60.000	U	87.2	60-105
Benzo(a)pyrene	49.030	2.0	"	60.000	U	81.7	61-108
Benzo(b)fluoranthene	46.130	2.0	"	60.000	U	76.9	58-109
Benzo(g,h,i)perylene	45.160	2.0	"	60.000	U	75.3	38-103
Benzo(k)fluoranthene	56.710	2.0	"	60.000	U	94.5	65-117
Benzyl alcohol	44.340	10	"	60.000	U	73.9	38-111



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Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE

Matrix Spike (2104025-MS1)	Source: E211506-03				Prepared: 04/09/21	Analyzed: 04/21/21			
Benzyl butyl phthalate	55.380	10	ug/L	60.000	U	92.3	50-124		QC-2
Bis(2-chloro-1-methylethyl) ether	53.510	10	"	60.000	U	89.2	48-109		
Bis(2-chloroethoxy)methane	59.170	10	"	60.000	U	98.6	49-113		
bis(2-Chloroethyl) Ether	56.030	10	"	60.000	U	93.4	50-106		
Bis(2-ethylhexyl) phthalate	91.370	10	"	60.000	U	152	47-124		QM-2
Caprolactam	28.620	10	"	60.000	U	47.7	26-89		
Carbazole	59.400	2.0	"	60.000	U	99.0	71-115		
Chrysene	51.600	2.0	"	60.000	U	86.0	62-107		
Dibenz(a,h)anthracene	53.060	2.0	"	60.000	U	88.4	42-111		
Dibenzo furan	62.430	2.0	"	60.000	U	104	50-123		
Diethyl phthalate	52.510	10	"	60.000	U	87.5	49-117		
Dimethyl phthalate	51.790	10	"	60.000	U	86.3	47-118		
Di-n-butylphthalate	50.830	10	"	60.000	U	84.7	55-117		
Di-n-octylphthalate	50.600	10	"	60.000	U	84.3	54-121		
Fluoranthene	55.340	2.0	"	60.000	U	92.2	67-109		
Fluorene	55.410	2.0	"	60.000	U	92.4	61-107		
Hexachlorobenzene (HCB)	48.710	10	"	60.000	U	81.2	48-117		
Hexachlorocyclopentadiene (HCCP)	46.850	10	"	60.000	U	78.1	13-99		
Hexachloroethane	44.260	10	"	60.000	U	73.8	30-112		
Indeno (1,2,3-cd) pyrene	50.360	2.0	"	60.000	U	83.9	41-110		
Isophorone	51.700	10	"	60.000	U	86.2	47-111		
Naphthalene	50.930	2.0	"	60.000	U	84.9	55-103		
Nitrobenzene	54.210	10	"	60.000	U	90.4	52-111		
n-Nitroso di-n-Propylamine	51.780	10	"	60.000	U	86.3	50-109		
n-Nitrosodiphenylamine/Diphenylamine	54.680	10	"	60.000	U	91.1	53-117		
Pentachlorophenol	52.700	10	"	60.000	U	87.8	41-123		
Phenanthrene	50.900	2.0	"	60.000	U	84.8	63-104		
Phenol	46.430	10	"	60.000	U	77.4	39-97		
Pyrene	55.010	2.0	"	60.000	U	91.7	52-113		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 2104025 - E 3520 LLE

Matrix Spike Dup (2104025-MSD1)	Source: E211506-03			Prepared: 04/09/21 Analyzed: 04/21/21						
Benzyl butyl phthalate	62.408	10	ug/L	59.701	U	105	50-124	11.9	21	QC-2
Bis(2-chloro-1-methylethyl) ether	55.423	10	"	59.701	U	92.8	48-109	3.51	25	
Bis(2-chloroethoxy)methane	60.348	10	"	59.701	U	101	49-113	1.97	19	
bis(2-Chloroethyl) Ether	57.522	10	"	59.701	U	96.4	50-106	2.63	28	
Bis(2-ethylhexyl) phthalate	58.657	10	"	59.701	U	98.3	47-124	43.6	27	QM-3
Caprolactam	27.264	10	"	59.701	U	45.7	26-89	4.85	36	
Carbazole	58.716	2.0	"	59.701	U	98.4	71-115	1.16	19	
Chrysene	54.358	2.0	"	59.701	U	91.1	62-107	5.21	23	
Dibenz(a,h)anthracene	51.343	2.0	"	59.701	U	86.0	42-111	3.29	30	
Dibenzo furan	63.572	2.0	"	59.701	U	106	50-123	1.81	24	
Diethyl phthalate	53.642	10	"	59.701	U	89.8	49-117	2.13	11	
Dimethyl phthalate	52.706	10	"	59.701	U	88.3	47-118	1.75	10	
Di-n-butylphthalate	51.562	10	"	59.701	U	86.4	55-117	1.43	26	
Di-n-octylphthalate	54.338	10	"	59.701	U	91.0	54-121	7.12	25	
Fluoranthene	53.711	2.0	"	59.701	U	90.0	67-109	2.99	23	
Fluorene	56.706	2.0	"	59.701	U	95.0	61-107	2.31	26	
Hexachlorobenzene (HCB)	51.194	10	"	59.701	U	85.8	48-117	4.97	32	
Hexachlorocyclopentadiene (HCCP)	42.139	10	"	59.701	U	70.6	13-99	10.6	32	
Hexachloroethane	45.801	10	"	59.701	U	76.7	30-112	3.42	35	
Indeno (1,2,3-cd) pyrene	48.716	2.0	"	59.701	U	81.6	41-110	3.32	30	
Isophorone	53.144	10	"	59.701	U	89.0	47-111	2.76	18	
Naphthalene	51.980	2.0	"	59.701	U	87.1	55-103	2.04	20	
Nitrobenzene	55.134	10	"	59.701	U	92.4	52-111	1.69	24	
n-Nitroso di-n-Propylamine	53.363	10	"	59.701	U	89.4	50-109	3.01	20	
n-Nitrosodiphenylamine/Diphenylamine	56.935	10	"	59.701	U	95.4	53-117	4.04	24	
Pentachlorophenol	52.090	10	"	59.701	U	87.2	41-123	1.17	15	
Phenanthrene	52.179	2.0	"	59.701	U	87.4	63-104	2.48	28	
Phenol	45.612	10	"	59.701	U	76.4	39-97	1.78	27	
Pyrene	64.289	2.0	"	59.701	U	108	52-113	15.6	20	



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Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE**MRL Verification (2104025-PS1)**

Prepared: 04/09/21 Analyzed: 04/21/21

Benzyl butyl phthalate	9.1700	10	ug/L	10.000	91.7	60-136		MRL-2, QC-2, J
Bis(2-chloro-1-methylethyl) ether	7.5000	10	"	10.000	75.0	48-107		MRL-2, J
Bis(2-chloroethoxy)methane	8.3000	10	"	10.000	83.0	53-107		MRL-2, J
bis(2-Chloroethyl) Ether	7.7700	10	"	10.000	77.7	47-104		MRL-2, J
Bis(2-ethylhexyl) phthalate	8.3300	10	"	10.000	83.3	19-179		MRL-2, J
Caprolactam	3.9400	10	"	10.000	39.4	32-87		MRL-2, J
Carbazole	1.8000	2.0	"	2.0000	90.0	67-119		MRL-2, J
Chrysene	1.6100	2.0	"	2.0000	80.5	55-116		MRL-2, J
Dibenz(a,h)anthracene	1.5800	2.0	"	2.0000	79.0	33-118		MRL-2, J
Dibenzofuran	1.8900	2.0	"	2.0000	94.5	53-113		MRL-2, J
Diethyl phthalate	8.3900	10	"	10.000	83.9	53-129		MRL-2, J
Dimethyl phthalate	7.8400	10	"	10.000	78.4	59-107		MRL-2, J
Di-n-butylphthalate	9.1900	10	"	10.000	91.9	69-139		MRL-2, J
Di-n-octylphthalate	7.9900	10	"	10.000	79.9	62-129		MRL-2, J
Fluoranthene	1.7300	2.0	"	2.0000	86.5	60-112		MRL-2, J
Fluorene	1.5900	2.0	"	2.0000	79.5	55-101		MRL-2, J
Hexachlorobenzene (HCB)	7.0400	10	"	10.000	70.4	50-105		MRL-2, J
Hexachlorocyclopentadiene (HCCP)	5.4200	10	"	10.000	54.2	10-85		MRL-2, J
Hexachloroethane	5.9000	10	"	10.000	59.0	26-89		MRL-2, J
Indeno (1,2,3-cd) pyrene	1.5400	2.0	"	2.0000	77.0	37-114		MRL-2, J
Isophorone	7.3900	10	"	10.000	73.9	54-108		MRL-2, J
Naphthalene	1.5000	2.0	"	2.0000	75.0	38-137		MRL-2, J
Nitrobenzene	7.6100	10	"	10.000	76.1	54-110		MRL-2, J
n-Nitroso di-n-Propylamine	7.2200	10	"	10.000	72.2	49-106		MRL-2, J
n-Nitrosodiphenylamine/Diphenylamine	8.1700	10	"	10.000	81.7	55-107		MRL-2, J
Pentachlorophenol	7.2300	10	"	10.000	72.3	20-136		MRL-2, J
Phenanthrenene	1.6300	2.0	"	2.0000	81.5	55-115		MRL-2, J
Phenol	6.4200	10	"	10.000	64.2	44-97		MRL-2, J
Pyrene	1.7700	2.0	"	2.0000	88.5	51-122		MRL-2, J



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D.A.R.T. Id: 21-0190

Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Semi Volatile Organics (SVOA) - Quality Control**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 2104025 - E 3520 LLE**MRL Verification (2104025-PS2)**

Prepared: 04/09/21 Analyzed: 04/21/21

EPA 8270D

1-Methylnaphthalene	0.16000	0.20	ug/L	0.20000	80.0	56-117			MRL-2, J
2-Methylnaphthalene	0.15000	0.20	"	0.20000	75.0	51-106			MRL-2, J
Acenaphthene	0.17000	0.20	"	0.20000	85.0	51-100			MRL-2, J
Acenaphthylene	0.16000	0.20	"	0.20000	80.0	52-104			MRL-2, J
Anthracene	0.14000	0.20	"	0.20000	70.0	48-108			MRL-2, J
Benzo(a)anthracene	0.20000	0.20	"	0.20000	100	52-117			MRL-2
Benzo(a)pyrene	0.19000	0.20	"	0.20000	95.0	48-116			MRL-2, J
Benzo(b)fluoranthene	0.21000	0.20	"	0.20000	105	31-142			MRL-2
Benzo(g,h,i)perylene	0.30000	0.20	"	0.20000	150	37-115			MRL-2
Benzo(k)fluoranthene	0.21000	0.20	"	0.20000	105	29-145			MRL-2
Carbazole	0.20000	0.20	"	0.20000	100	67-119			MRL-2
Chrysene	0.18000	0.20	"	0.20000	90.0	55-116			MRL-2, J
Dibenz(a,h)anthracene	0.34000	0.20	"	0.20000	170	33-118			MRL-2
Fluoranthene	0.17000	0.20	"	0.20000	85.0	60-112			MRL-2, J
Fluorene	0.16000	0.20	"	0.20000	80.0	55-101			MRL-2, J
Indeno (1,2,3-cd) pyrene	0.34000	0.20	"	0.20000	170	37-114			MRL-2
Naphthalene	0.19000	0.20	"	0.20000	95.0	38-137			MRL-2, J
Pentachlorophenol	0.97000	1.0	"	1.0000	97.0	20-136			MRL-2, J
Phenanthrene	0.18000	0.20	"	0.20000	90.0	55-115			MRL-2, J
Pyrene	0.18000	0.20	"	0.20000	90.0	51-122			MRL-2, J



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Project: 21-0190, International Paper, Wiggins - Reported by Stacie Masters

Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- QC-2 Analyte concentration high in continuing calibration verification standard
- QM-2 Matrix Spike Recovery greater than method control limits
- QM-3 Matrix Spike Precision outside method control limits

Appendix B

Field

Logbook

United States Environmental Protection Agency
Region 4

Laboratory Services and Applied Science Division
980 College Station Road
Athens, Georgia 30605-2720



Project Name: **International Paper, Wiggins**

Project Location: **Wiggins, Mississippi**

Project ID Number: **21-0190**

Project Leader: **Art Masters**

Field Measurement and Potable Water Well Sampling Logbook

Book 1 of 1

Inclusive Dates: April 6 - 6, 2021

List of personnel in logbook:

Name	Initials	Organization/Duties
Art Masters	<u>AM</u>	Project Lead, Sampler
Paula Whiting	<u>PAW</u>	Sampler, Logbook

The following procedures will be used unless otherwise stated in the field logbooks:

SESDPROC-1002-R0, Logbooks
SESDPROC-011-R5, Field Sampling Quality Control
LSASDPROC-100-R5, Field pH Measurement
LSASDPROC-101-R7, Field Specific Conductance Measurement
SESDPROC-102-R5, Field Temperature Measurement
SESDPROC-103-R4, Field Turbidity Measurement
LSASDPROC-202-R4, Management of Investigation Derived Waste
LSASDPROC-205-R4, Field Equipment Cleaning and Decontamination
LSASDPROC-209-R4, Packing, Marking, Labeling and
 Shipping of Environmental and Waste Samples
SESDPROC-301-R4, Groundwater Sampling
ASBPROC-305-R4, Potable Water Supply Sampling

Notes:

**Instrument calibration information is recorded in a separate instrument calibration logbook.
Record instrument # (e.g. 1, 2, 3...) from the calibration logbook below:**

<u>Dates Used</u>	<u>Conductivity/ pH</u>	<u>Turbidity</u>
<u>4/6/21</u>	<u>020314-03</u>	<u>090310-08</u>

Notes:

Notes:

Instrument Calibration Log

Date/Time 4/6/2021 Calibrator's Initials. AM

Instrument #	LSASD ID#	pH	SC	Turbidity	Temp.
1	see previous page	X	X		X
2	"			X	
3	"				

Calibration Standards:

Standard	Value	Manufacturer	Lot #	Expiration
pH	4	Oakton / Thermo	2911B05	11/2021
pH	7	Oakton / Thermo	2911867	10/2021
pH	10	Oakton / Thermo	2911927	5/2021
Conductivity	1413µS	Thermo Orion	XS1A	8/2021
Turbidity set #	10, 20	Hach	A1013	4/2022
Turbidity set #	100	Hach	A0352	3/2022
Turbidity set #	800	Hach	A1020	5/2022
NIST Thermometer	Temperature Dependent	Fisher	111413-07	1/20/2022
NIST Thermometer	Temperature Dependent	Fisher		

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Instrument Calibration Log

Date/Time _____

Calibrator's Initials. _____

Instrument #	LSASD ID#	pH	SC	Turbidity	Temp.
1		X	X		X
2				X	
3					

Calibration Standards:

Standard	Value	Manufacturer	Lot #	Expiration
pH	4	Oakton / Thermo		
pH	7	Oakton / Thermo		
pH	10	Oakton / Thermo		
Conductivity	1413µS	Thermo Orion		
Turbidity set #				
Turbidity set #				
NIST Thermometer	Temperature Dependent	Fisher		
NIST Thermometer	Temperature Dependent	Fisher		

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Calibration: Date 4/6/21 Time 11:53 AM CDT Temp 24.3°C End Check: Time 18:45 p Temp 21.0°C

Cal Initials	Instr. #	Parameter	Standard Value	Pre-cal Reading	Cal/Verification/ Slope	Post-cal Reading	End of Day Check	End Check Initials
1	1	pH	4	4.17	4.01	3.86	3.83	4/6/21
	1	pH	7	7.07	6.99	6.94	6.43	
	1	pH	10 PAW 4/6/21	9.56 PAW 4/6/21	Slope: 0.472	10.00	9.97 PAW 4/6/21	
	1	Cond	1413μS	1413	1413μS	1410	2749 PAW 4/6/21	
	1	Temp	NIST: 27.9 °C 28.1		instr: 27.9 °C		NIST 22.6 °C / Instr 22.6	
	2	Turbidity	PAW 0 4/6/21	0.90		0.67	0.08	
	2	Turbidity	10	10.3		10.0	10.2	
	2	Turbidity	20	21.1		20.9	20.7	
	2	Turbidity	100	102	103	102	103	

Notes:

PAW 4/6/21

PAW 4/6/21

Had to reattach Cond cord firmly to get a result of 1420 from 2749 @ end check.

Calibration: Date _____ Time _____ Temp _____ °C End Check: Time _____ Temp _____ °C

Cal Initials	Instr. #	Parameter	Standard Value	Pre-cal Reading	Cal/Verification/ Slope	Post-cal Reading	End of Day Check	End Check Initials
1	1	pH	4					4/6/21
	1	pH	7					
	1	pH	10		Slope:			
	1	Cond	1413μS		1413μS			
	1	Temp	NIST: °C		instr: °C		NIST: °C / Instr: °C	
	2	Turbidity	0					
	2	Turbidity	10					
	2	Turbidity	20					
	2	Turbidity	100					

Notes:

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Date: 4/6/21 Station ID: IP-088MR Sample ID: IP-088MR

Team Members

Art Masters _____

Duties Sampler, Meters _____

Paula Whiting _____

Sampler, Meters, Logbook _____

Potablewell

Well Diameter (in)

NA

Well screen length (ft) NA

Well Depth (ft)

NA

Tubing intake (ft above bottom) NA

Water Level (ft)

NA

Water Column (ft)

NA

Purge Start Time 1:28 pm CDT

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
PAW 4/6/21 1:31 1331	—	5.64	22.7	61.13	0.67
1335	—	4.94	21.6	57.01	0.18
1340	—	4.87	21.4	56.69	0.16
1345	—	4.92	21.3	56.69	0.15
1347	MS/MSD?				

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2	V	Ice	V

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear sunny, very warm

Sample media description (odor, color, etc.):

clear, potable well water from 42 gal tank

Procedure deviations/Comments/Notes:

88 Mill Road

Date: 4/6/21 Station ID: IP-092A MR Sample ID: IP-092A MR

Team Members

Art Masters	Sampler, Meters
Paula Whiting	Sampler, Meters, Logbook

Well Diameter (in)	NA	Well screen length (ft)	NA
Well Depth (ft)	1	Tubing intake (ft above bottom)	NA
Water Level (ft)	1		
Water Column (ft)	1	Purge Start Time	1355

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1357	—	5.12	21.9	60.82	0.31
1402	—	5.01	21.7	48.85	3.58
1407	—	5.02	20.9	39.67	0.26
1412	—	4.94	21.4	46.44	0.52
1417	—	4.99	21.0	39.81	0.26
1422	—	4.91	21.1	42.40	0.42
1427	—	4.90	21.2	43.88	0.33
1432	—	4.95	21.2	43.24	0.54
1433		MS/MSD?			

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2	✓	Ice	✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear, thin and off overcast, very warm

Sample media description (odor, color, etc.):

Clear, potable well water from 82 gal tank

Procedure deviations/Comments/Notes:

92A Mill Road

Date: 4/6/21 Station ID: IP-4530H Sample ID: IP-4530H

Team Members

Duties

Art Masters
Paula Whiting

Sampler, Meters
Sampler, Meters, Logbook

Well Diameter (in)

NA

Well screen length (ft)

NA

Well Depth (ft)

1

Tubing intake (ft above bottom)

NA

Water Level (ft)

1

Water Column (ft)

Purge Start Time

1445

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1449	—	5.03	21.7	33.85	0.23
1453	—	4.97	21.4	33.56	0.18
1458	—	4.91	21.5	33.56	0.13
1503	—	4.91	21.5	33.68	0.19
1505	MS/MSD?		1	1	

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2	<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear, on and off overcast, very warm.

Sample media description (odor, color, etc.):

Clear, potable well water from 20 gal tank

Procedure deviations/Comments/Notes:

453 Old Hwy 49

Date: 4/6/21 Station ID: IP-Ø330AR Sample ID: IP-Ø330AR

Team Members

Art Masters	Sampler, Meters
Paula Whiting	Sampler, Meters, Logbook

Well Diameter (in)	NA	Well screen length (ft)	NA
Well Depth (ft)		Tubing intake (ft above bottom)	NA
Water Level (ft)			PAW 4/6/21
Water Column (ft)		Purge Start Time	1514

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1518	—	4.93	20.8	35.13	0.35
1523	—	4.91	21.1	35.26	0.11
1528	—	4.89	21.1	35.36	0.13
1533	—	4.92	21.2	35.18	0.19
1535	MS/MSD?				

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2	✓	Ice	✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear, overcast very warm

Sample media description (odor, color, etc.):

clear potable well water

Procedure deviations/Comments/Notes:

33 Old Airport Road

Date: 4/6/21 Station ID: IP-0380AR Sample ID: IP-0380AR

Team Members

Duties

Art Masters	Sampler, Meters
Paula Whiting	Sampler, Meters, Logbook

Well Diameter (in)

NA

Well screen length (ft) NA

Well Depth (ft)

|

Tubing intake (ft above bottom) NA

Water Level (ft)

|

Water Column (ft)

|

Purge Start Time 1544

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1547	—	5.04	24.0	28.32	2.66
1552	—	4.83	21.3	27.04	0.30
1557	—	4.76	21.1	27.14	0.29
1602	—	4.77	21.1	27.21	0.26
1605	MS/MSD?	✓			

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2 + 2	✓	Ice	✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear, Overcast very warm

Sample media description (odor, color, etc.):

clear potable wellwater

Procedure deviations/Comments/Notes:

38 Old Airport Road

Date: 4/6/21 Station ID: IP-032 OAR Sample ID: IP-032 OAR
DAW
4/6/21

Team Members

Duties

Art Masters

Sampler, Meters

Paula Whiting

Sampler, Meters, Logbook

Well Diameter (in)

NA

Well screen length (ft)

NA

Well Depth (ft)

1

Tubing intake (ft above bottom)

NA

Water Level (ft)

1

Water Column (ft)

Purge Start Time 1610

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1615	—	4.80	20.9	65.52	2.79
1620	—	4.74	20.8	35.15	3.46
1625	—	4.76	21.08	35.24	3.01
1630	—	4.74	21.0	35.30	2.92
1633	MS/MSD?				

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L Amber-2	✓	Ice	✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

clear, sunny, very warm

Sample media description (odor, color, etc.):

clear potable well water

Procedure deviations/Comments/Notes:

32 Old Airport Road

Date: 4/6/21 Station ID: IP-106 OAR Sample ID: IP-106 OAR

Team Members

Duties

Art Masters
Paula Whiting

Sampler, Meters
Sampler, Meters, Logbook

Well Diameter (in) NA
Well Depth (ft)
Water Level (ft)
Water Column (ft)

Well screen length (ft) NA
Tubing intake (ft above bottom) NA

Purge Start Time 1648

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond (µS/cm)	NTU
1653	—	4.98	21.3	39.51	0.67
1658	—	4.90	21.2	39.46	0.30
1703	—	4.86	21.0	39.54	0.15
1708	—	4.90	21.1	39.47	0.32
1610	MS/MSD?				

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber -2	✓	Ice	✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Sunny Clear very warm
Sample media description (odor, color, etc.):
Clear potable well water

Procedure deviations/Comments/Notes:

106 Old Airport Road

Date: 4/6/21 Station ID: 1P-044 HR Sample ID: 1P-044 HR

Team Members

Art Masters	Sampler, Meters
Paula Whiting	Sampler, Meters, Logbook

Well Diameter (in)	NA	Well screen length (ft)	NA
Well Depth (ft)		Tubing intake (ft above bottom)	NA
Water Level (ft)			
Water Column (ft)		Purge Start Time	1723

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond ($\mu\text{S}/\text{cm}$)	NTU
1725	—	5.22	20.9	24.47	0.32
1730	—	5.13	20.5	24.86	0.18
1735	—	5.03	20.3	24.97	0.52
1740	—	5.06	20.3	24.98	0.13
1743	MS/MSD?		1		

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L Amber-2	✓	Ice	✓
		✓		✓
		✓		✓
		✓		✓
		✓		✓
		✓		✓

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Clear, sunny

Sample media description (odor, color, etc.):

clear potable well water from 60 gal tank

Procedure/Actions/Comments/Notes:

#4 Hilcrest Road
44

(Roger White)

Date: _____ Station ID: _____ Sample ID: _____

Team Members

Art Masters _____

Sampler, Meters

Paula Whiting _____

Sampler, Meters, Logbook

Duties

Well Diameter (in) _____

Well screen length (ft)

Well Depth (ft) _____

Tubing intake (ft above bottom) _____

Water Level (ft) _____

Purge Start Time _____

Water Column (ft) _____

Time	Cumulative Volume	pH (S.U.)	Temp (°C)	Spec Cond ($\mu\text{S}/\text{cm}$)	NTU
MS/MSD?					

Analyses	Container Type	Collected	Preservation	Samples Iced?
Semi-volatiles	1 L amber-2		Ice	

If Duplicate Sample:

Sample ID _____

Date / Time _____

Environmental conditions:

Sample media description (odor, color, etc.):

Procedure deviations/Comments/Notes:

Appendix C

Chain of Custody

E211506

USEPA Region 4 COC (REGION COPY)

DateShipped: 4/7/2021

CarrierName: GOV Carrier

AirbillNo:

CHAIN OF CUSTODY RECORD

International Paper Wiggins/MS

Project Number: 21-0190

Cooler #:

No: 04/06/21-0001

Lab: Region 4 Lab

Lab Contact: Mike Beall

Lab Phone: 706-355-8856

Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-01	IP-032OAR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-032OAR	04/06/2021 16:33	Field Sample
-02	IP-033OAR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-033OAR	04/06/2021 15:35	Field Sample
-03	IP-038OAR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice), C (Ice), D (Ice) (4) ✓	IP-038OAR	04/06/2021 16:05	Field Sample
-04	IP-044HR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-044HR	04/06/2021 17:43	Field Sample
-05	IP-088MR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-088MR	04/06/2021 13:47	Field Sample
-06	IP-092AMR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-092AMR	04/06/2021 14:33	Field Sample
-07	IP-106OAR	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-106OAR	04/06/2021 16:33	Field Sample
-08	IP-453OH	Potable Water/ Masters, Art	Grab	SVOA(35)	A (Ice), B (Ice) (2) ✓	IP-453OH	04/06/2021 15:05	Field Sample

Special Instructions:	Shipment for Case Complete? Y
	Samples Transferred From Chain of Custody #

Analysis Key: SVOA=(SVOA) Semivolatiles

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		4/7/21 1500		4-7-21 1500	OKAY

End Of Report